

Appointment

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**From:** Cox, Michael [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=CDDD6A5BB3C2477183799EF56CDB464F-COX, MICHAEL]  
**Sent:** 7/7/2016 11:16:36 PM  
**To:** Cox, Michael [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=cddd6a5bb3c2477183799ef56cdb464f-Cox, Michael]; Allnutt, David [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=6e28f5bf9cbf4b8b9eda7751c2f10750-Allnutt, David]; Anderson-Carnahan, Linda [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=c34cc9be6ab74896b7ea15338cbe41eb-Anderson-Carnahan, Linda]; Bonifaci, Angela [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=d9bd4b43bb5f4317b6f2f2294877d346-Bonifaci, Angela]; Bonifacino, Gina [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=2497cad4ed6046b398f2ba5d13345242-Bonifacino, Gina]; Brown, Cheryl A. [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=dd6f8a562924439aaf97ca98ddaf1e10-Brown, Cheryl]; Cope, Ben [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=497efadd936e4d378225116b8f50fd3f-Cope, Ben]; Cora, Lori [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=c8850941bf1540c796559dce75c2f5ee-Cora, Lori]; Croxton, Dave [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ca7b9940863640d5b96f4295ea3c9641-Croxton, Dave]; Davis, Michelle V. [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5887757041744158a41215a9c33fd4a3-Davis, Michelle]; Dunbar, Bill [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=133b66d6ab1b42108751e37b28176ec3-Dunbar, Bill (William) D.]; Duncan, Bruce [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ff04bb22dfc44cbb9fb60c1de6f6e130-Duncan, Bruce]; Fullagar, Jill [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=7ba061353c314b40a14a8be1ee382ae3-Gable, Jill]; Labiosa, Rochelle [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ded3654216c9461d95cd5a3ceec507ef-Labiosa, Rochelle]; Littleton, Christine [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=2d5631654c3840f48f71c2457d8fb2ac-Reichgott, Teena]; Lohrman, Bridgette [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0165d4dc0da54f03985e6042638acdca-Lohrman, Bridgette A.]; Mlsna, Ivy [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=89bcf80a57804a1eb45c444749cb4550-Mlsna, Ivy]; Nelson, Walt [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=023bd72e66a348018f63b4786c65c51b-Nelson, Walt]; Olsen, Tony [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=881db40ea5044b1daaee914f954f5573-Olsen, Tony]; Pacella, Stephen [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e7bbd90fb0784c9bb124931c63a6a746-Pacella, Stephen]; Rappoli, Brian [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=5d1b13e0ec164d34befd1431f7236447-Rappoli, Brian]; Szelag, Matthew [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=f1e48230d96943f8acb72810e32ce8d6-Szelag, Matthew]; Zachmann, Bill [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=e765392b7ee94fa1bd25b00f9a9c7824-Zachmann, B]; Ziegler, Sam [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=70e177091bd1472e81022fd27426fc5b-SZIEGLER]  
**CC:** Thornhill, Alan [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=0d3fa7ff50e342d5b2cbbf64bdeb484c-Thornhill,]; Clinton, Pat [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=2a8a2ee700f6435ea20155942a045963-Clinton, Pat]

**Subject:** Region 10 OA Workgroup: Call-in: Personal Privacy / Ex. 6 Code: Personal Privacy / Ex. 6 #, Adobe Connect: Personal Privacy / Ex. 6

**Attachments:** indicator\_paper\_Frontiers\_6\_29\_final.docx; NANOOS\_WOAC\_data\_28June2016\_WSDE.xlsx; West-Coast-OA-Data\_2007\_2011\_2012\_2013\_for\_WSDE.xlsx; WSDE\_303d\_data\_letter\_FINAL.pdf; WC\_pteropod.pdf; West-Coast-OA-Data\_2007\_2011\_2012\_2013\_for\_WSDE Walt Nelson July 12 2016.xlsx; Pteropod Data 2011\_2013\_2014.xlsx

**Location:** R10Sea-Room-14Elwha/R10-Rooms-Service-Center

**Start:** 7/13/2016 8:00:00 PM

**End:** 7/13/2016 9:00:00 PM

**Show Time As:** Tentative

**Lots to discuss tomorrow.**

Wednesday July 13<sup>th</sup>

1:00 – 2:00 (PST)

14<sup>th</sup> Floor (Elwha)

Call-in: Personal Privacy / Ex. 6

Code: Personal Privacy / Ex. 6

Adobe Connect: Personal Privacy / Ex. 6

## Agenda

### 1. Status on OW Response to CBD Petition

### 2. Discuss of OW/NOAA data

#### 1. Letter from UW/NOAA to CBD, indicator paper, and data files



WSDE\_303d\_da...



indicator\_paper\_...



NANOOS\_WOA...



West-Coast-OA-...

#### 2. Map of Pteropod data for 2011, 2013, and 2014 from Pat Clinton (thanks Pat). Pat also determined the distance from shore for all the sites (maybe exception of 2014 data?) in feet and meters. 5 sites are within the 3 miles from shore (these data are on the last tab of the spreadsheet from Walt Nelson below)



WC\_pteropod.pdf

#### 3. Analysis of 2014 Pteropod data from Walt Nelson (Look at second to last tab. Walt's discussion included below).



West-Coast-OA-...  
Walt Nelson July...

On the 2014 pteropod worksheet in the attached spreadsheet, I plotted the 2014 pteropod damage % versus undersaturation %. The plot is not as elegant as the one Cheryl did, but you can see that there is a great deal of variance in the Puget Sound data. I plotted each month as a separate data series, and the regression stats for each are given to the right of the figure. I also computed the regression stats for the entire 2014 pteropod data set (at the

bottom). There was no statistically significant relationship within the three months, or for the data set as a whole of pteropoda damage versus undersaturation. You can see that as time progresses, undersaturation increases, and damage proportion does too. I did not test the relationship for the Sept. and Oct. data combined. I also plotted the data for the four 2014 stations for which there were 3 time period measurements to try to get an impression of variation within a station. It is pretty large. I did not have time to see if anything falls out spatially, but this would be worth looking at.

4. Compilation of pteropod data for 2011, 2013, and 2014



Pteropod Data  
2011\_2013\_2014...

3. **Discuss EPA's participation on MRAC committees**

- Science and monitoring (Ben)
- Remediation/Adaptation (Jim Kaldy/Mike Cox)
- Land based (Teena)
- Communication (Sally)